FIG. 1A (PRIOR ART)

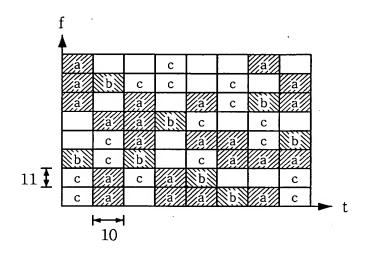
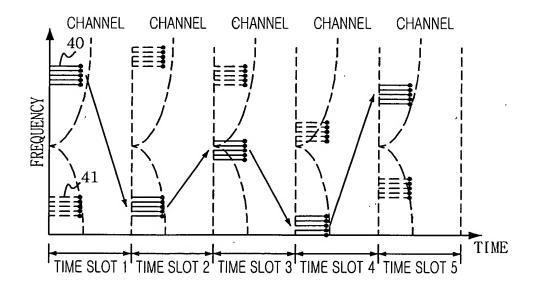
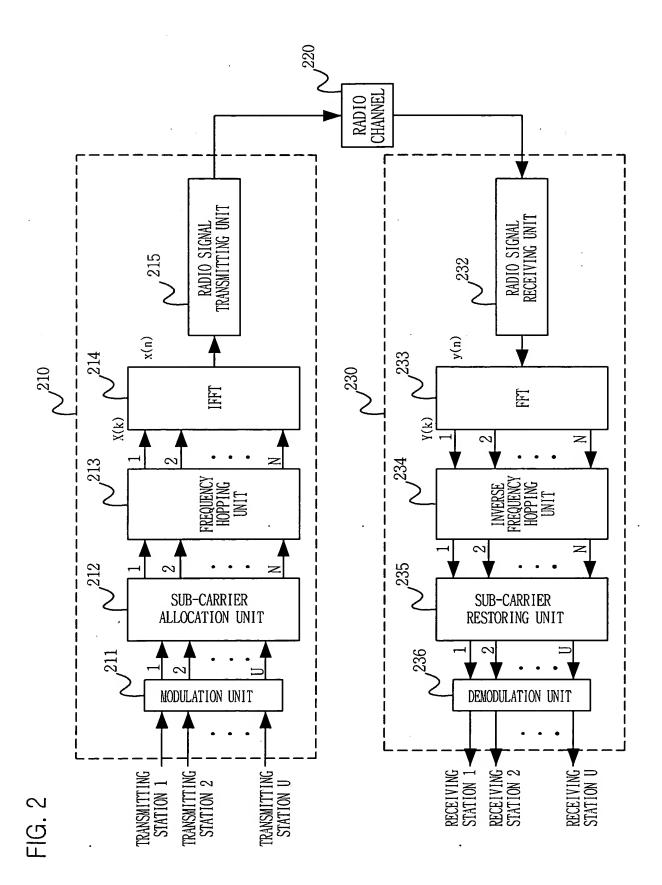


FIG. 1B (PRIOR ART)





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FIG. 3

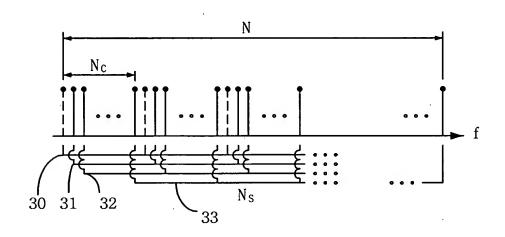
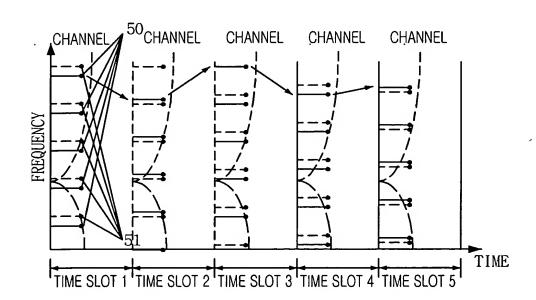


FIG. 4



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FIG. 5

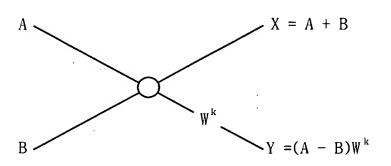
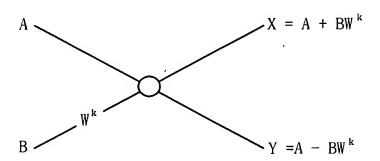


FIG. 6

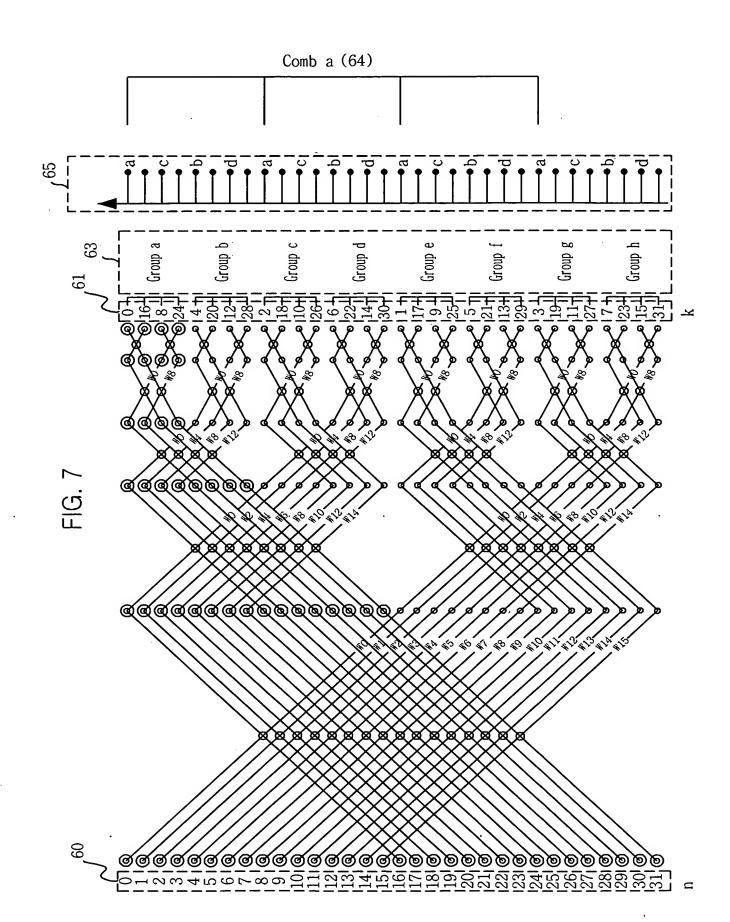


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l Named Inventor: Kyung-Hi CHANG

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Docket No.: 51876P8 **10** / 53273 eet: 5 of 46

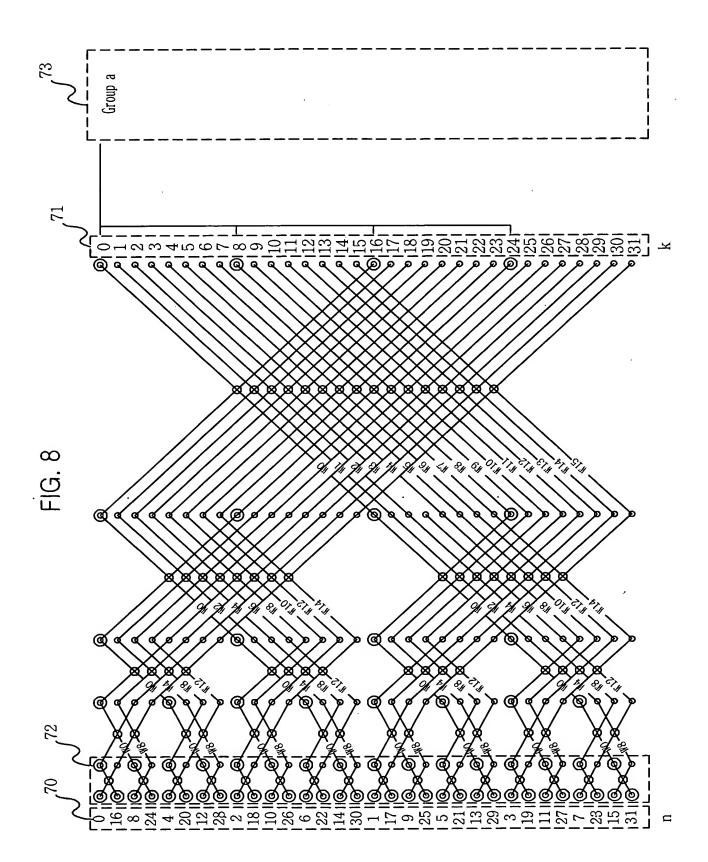


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t Named Inventor: Kyung-Hi CHANG press Mail No.: EV372846782US

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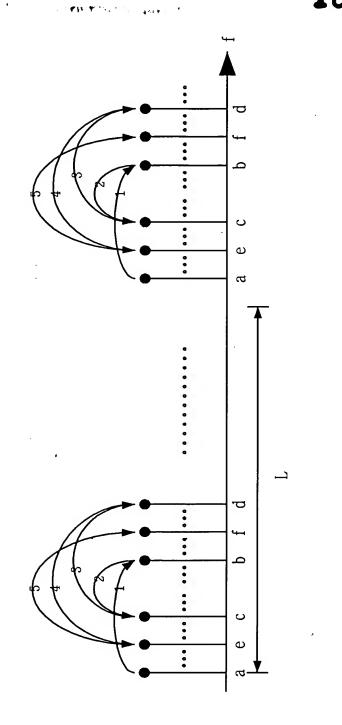
Docket No.: 51876P 10 / 532734

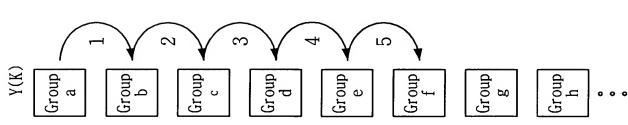
 $\frac{1}{3}$ <u>୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭</u>୭ **@** @ d 8()8()8()8 14 04 0 18 19 **6**66 Ø ම 12646978691 83 Group ; Comb a (84)

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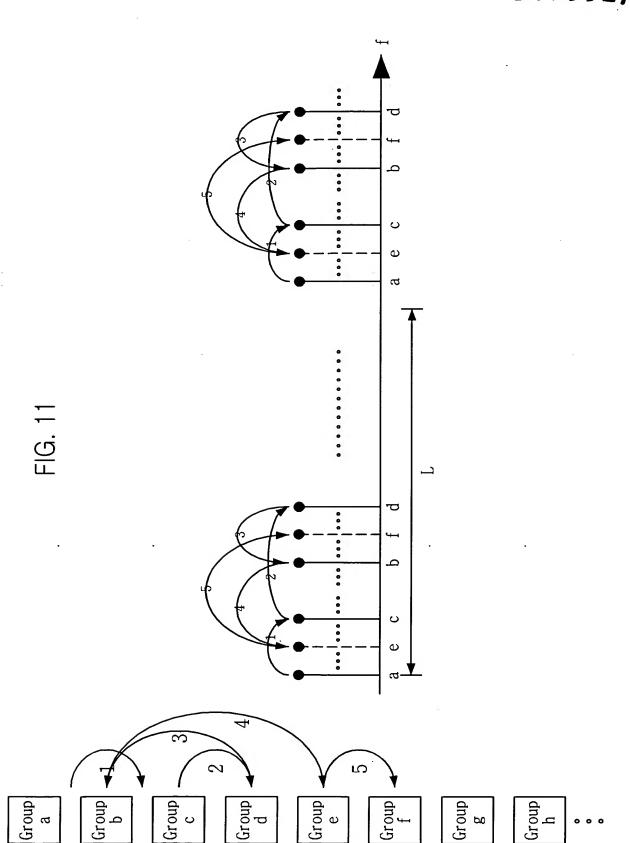
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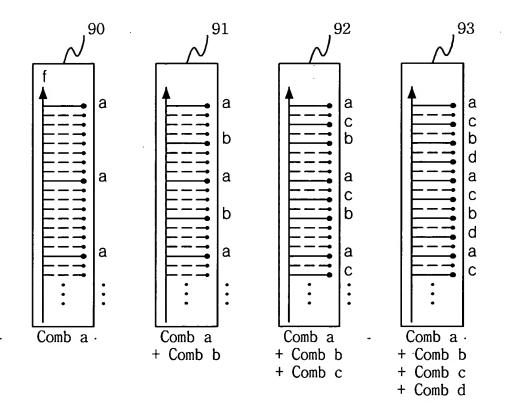
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FIG. 12



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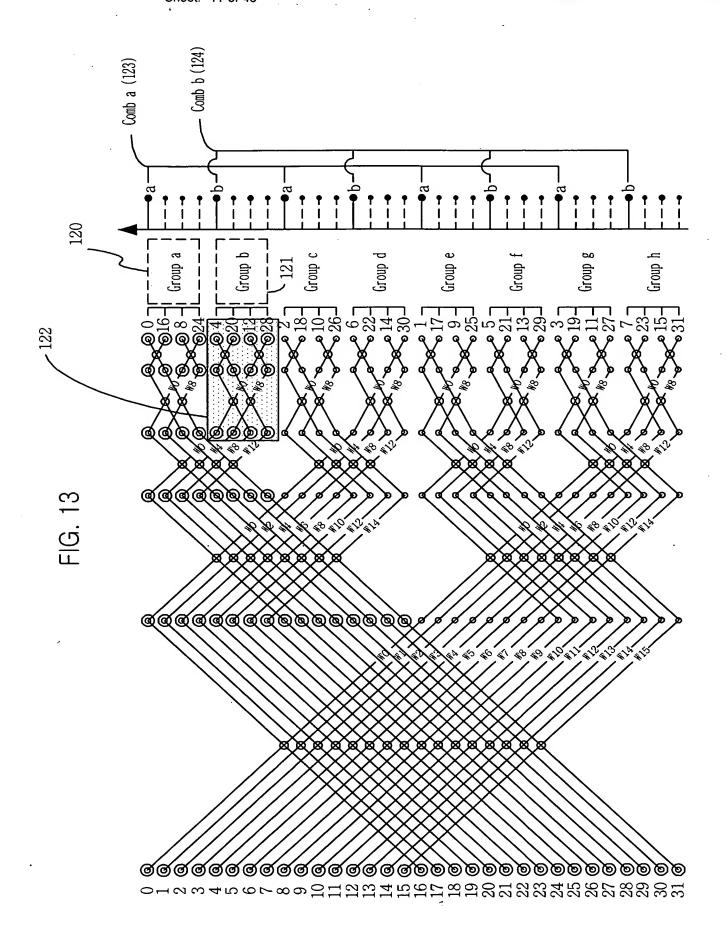
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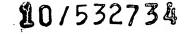
Title: FREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN

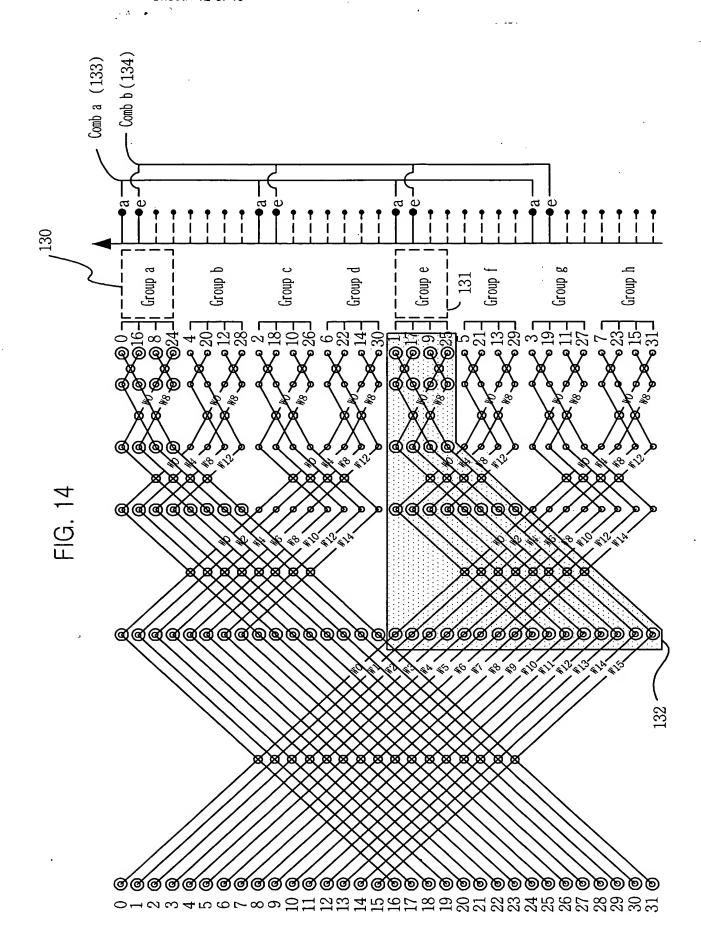
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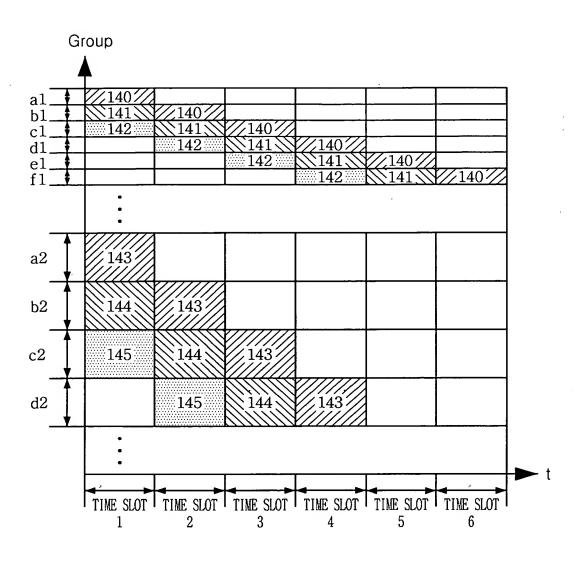
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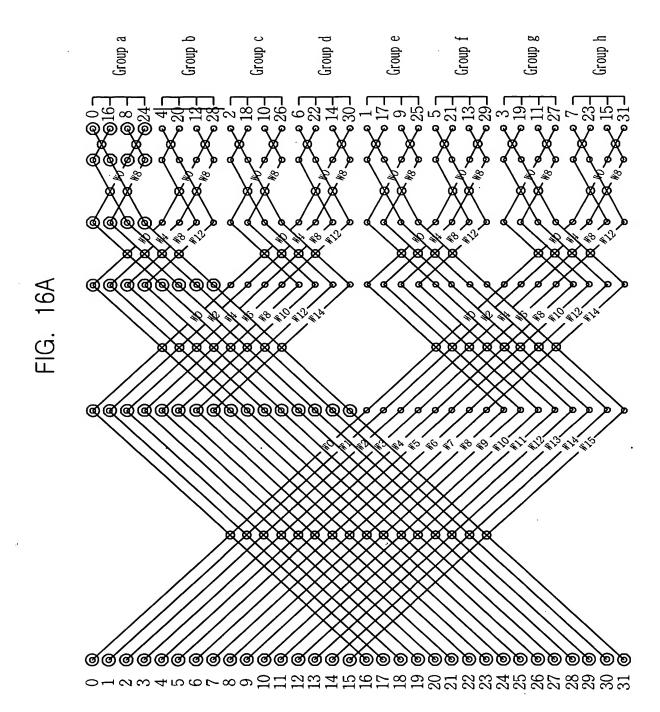
FIG. 15



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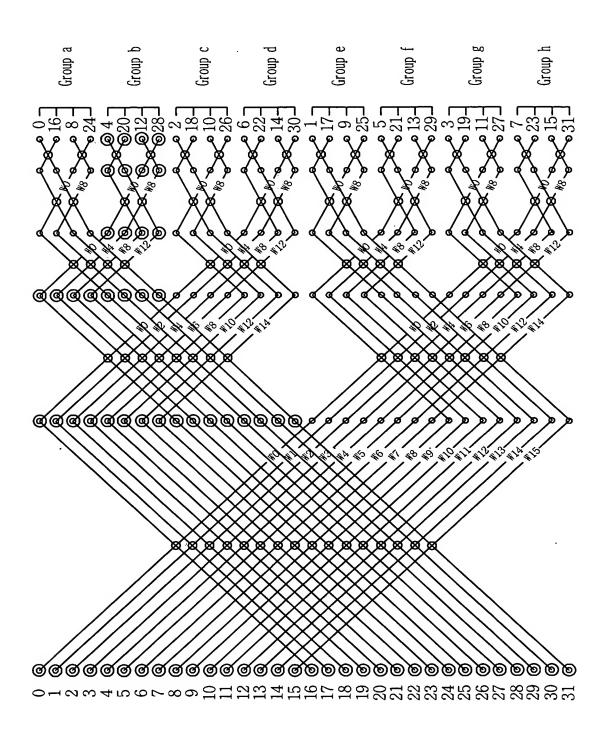
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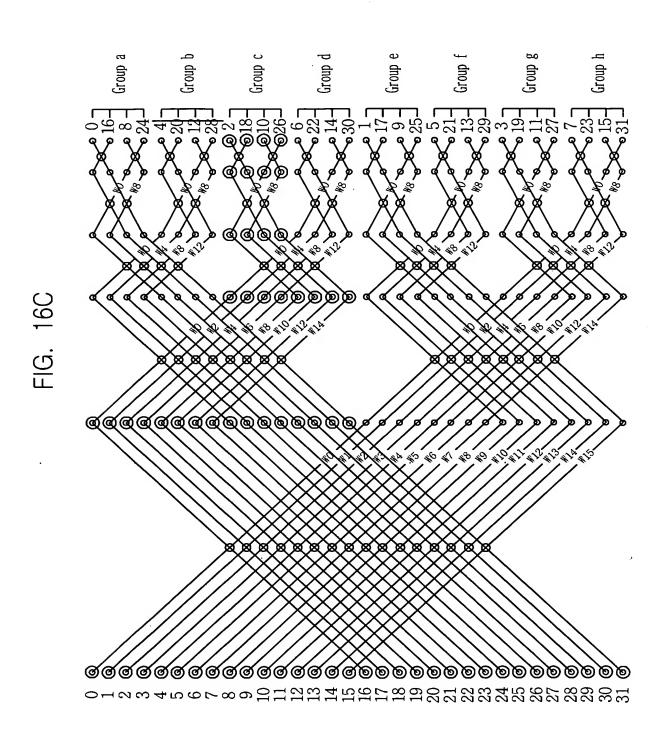
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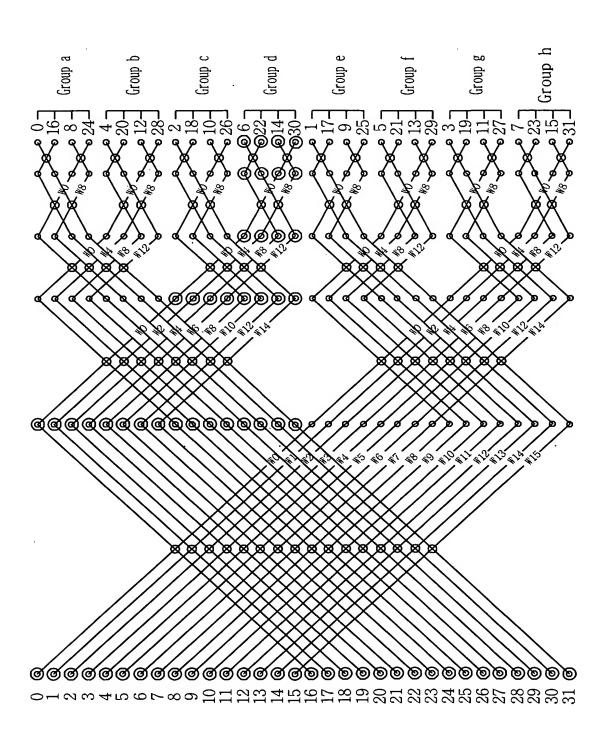
1st Named Inventor: Kyung-Hi CHANG Express Mail No.: EV372846782US

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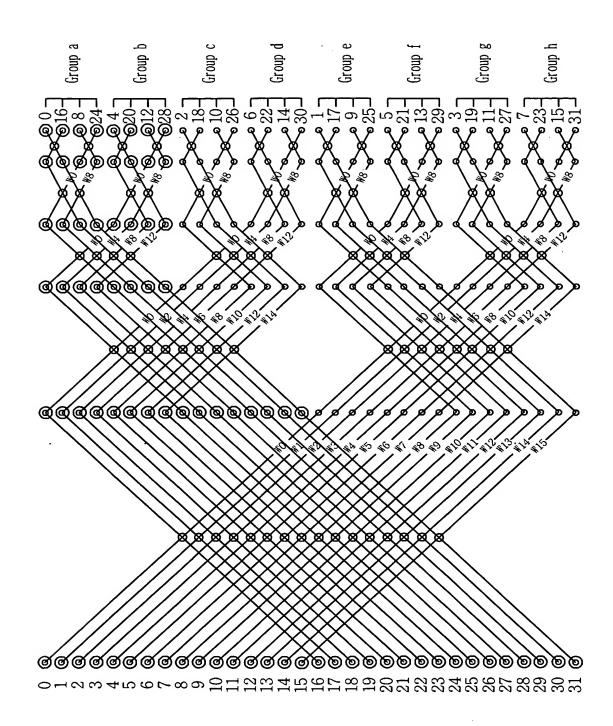
Title: FREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN 1st Named Inventor: Kyung-Hi CHANG

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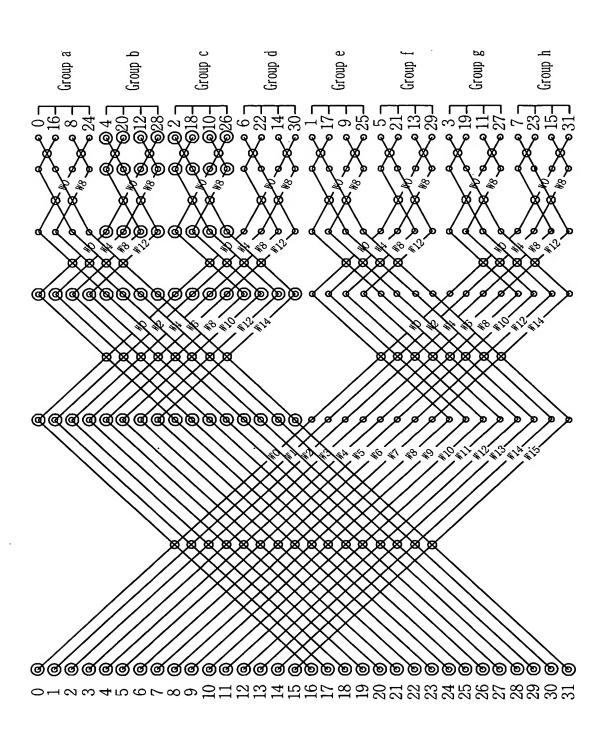
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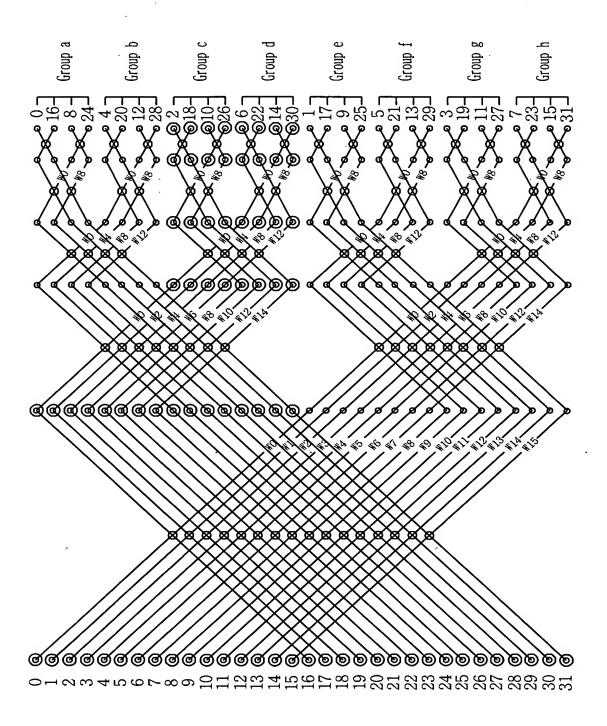
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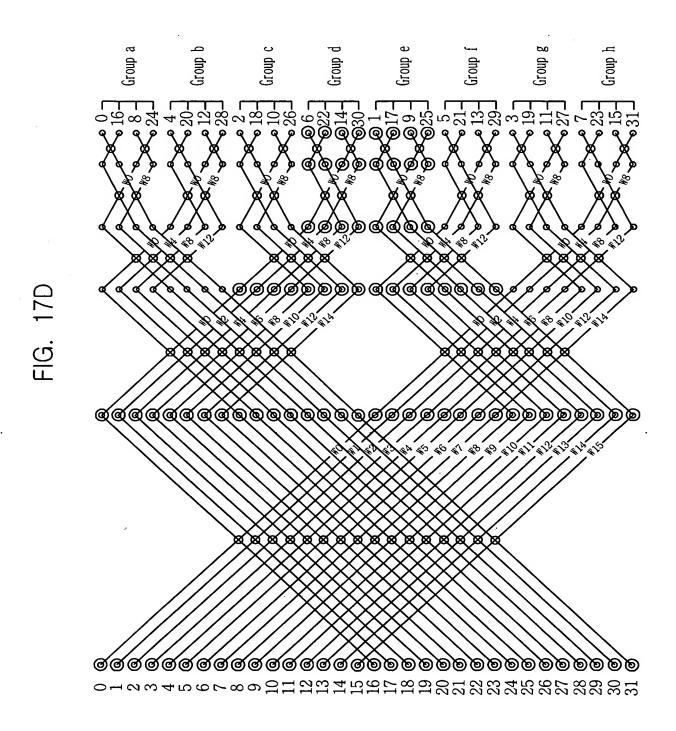


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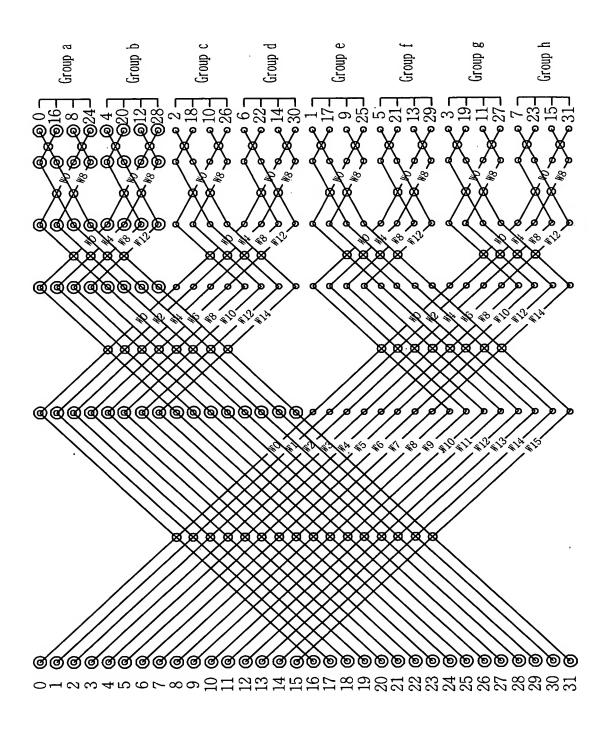
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FIG. 18B Q

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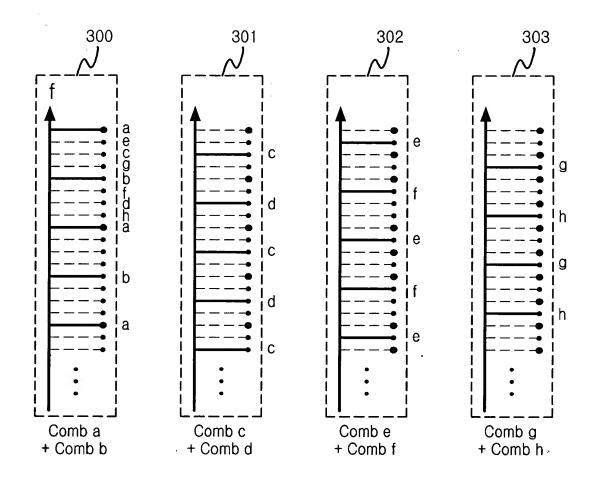
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FIG. 19



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FIG. 20

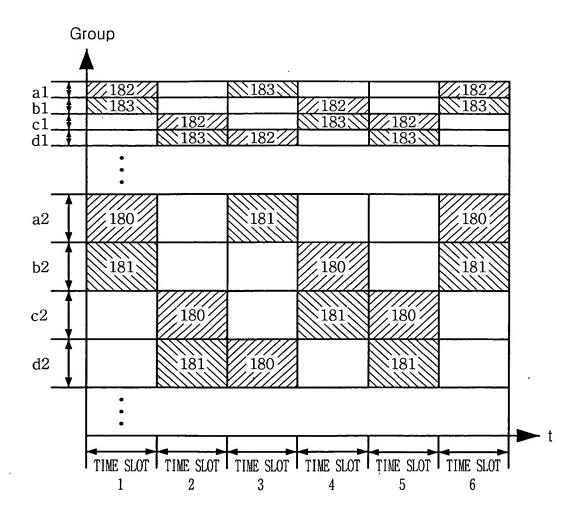
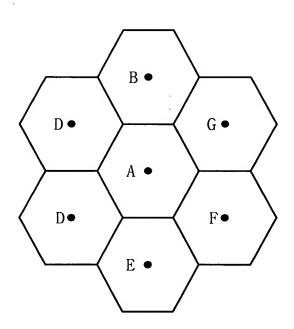


FIG. 21



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FIG. 22A

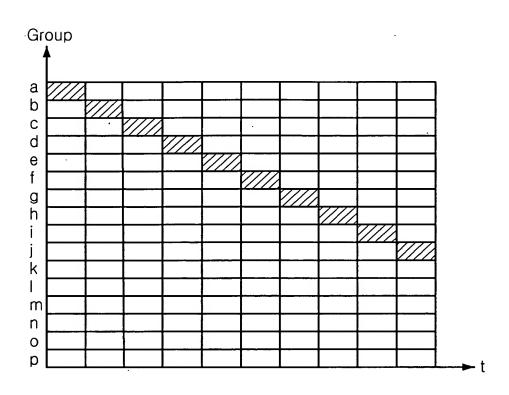
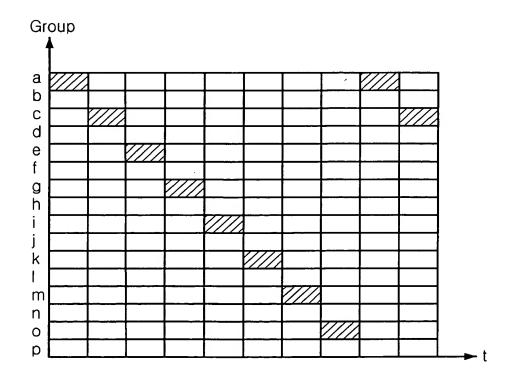


FIG. 22B



(310) 207-3800 ikely, Sokoloff, Taylor & Zafman LLP le: FREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN I Named Inventor: Kyung-Hi CHANG

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FIG. 22C

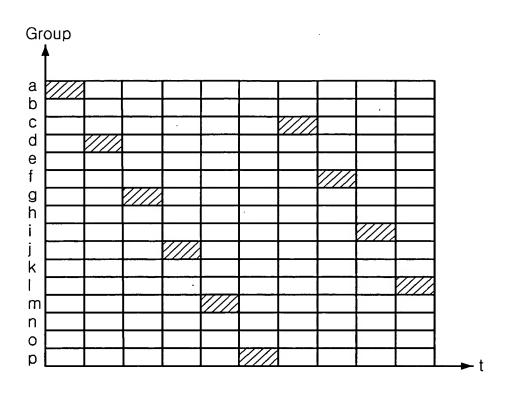
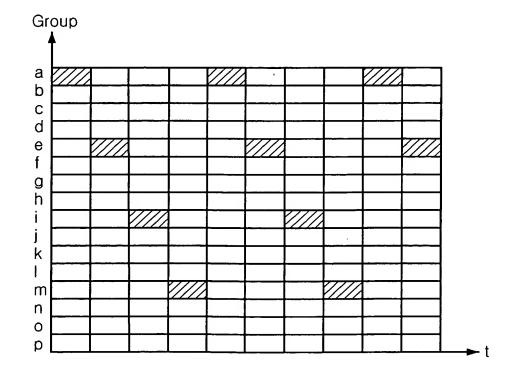


FIG. 22D



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FIG. 22E

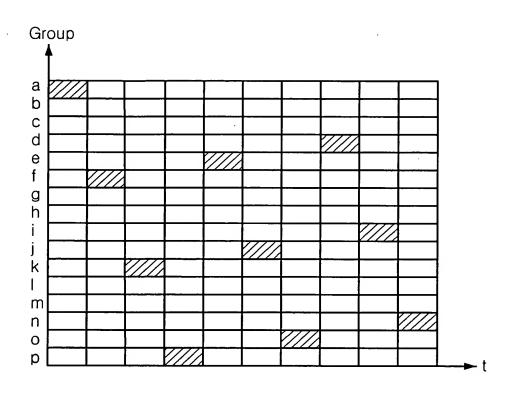
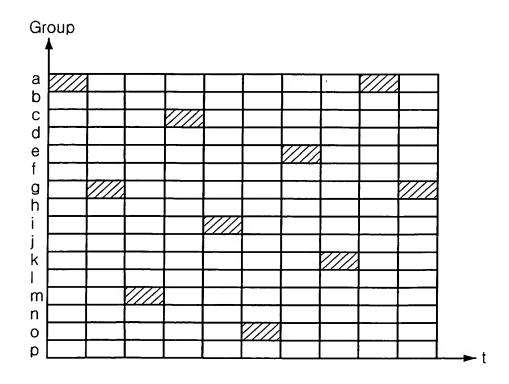


FIG. 22F

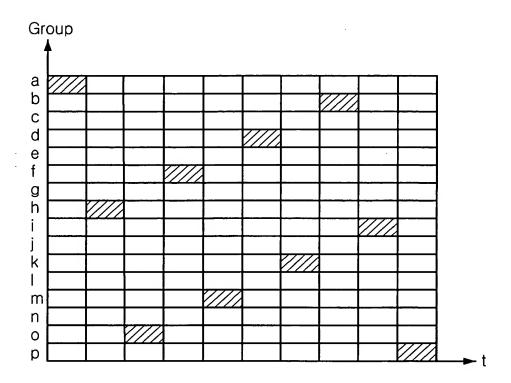


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1st Named Inventor: Kyung-Hi CHANG
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FIG. 22G



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FIG. 23A

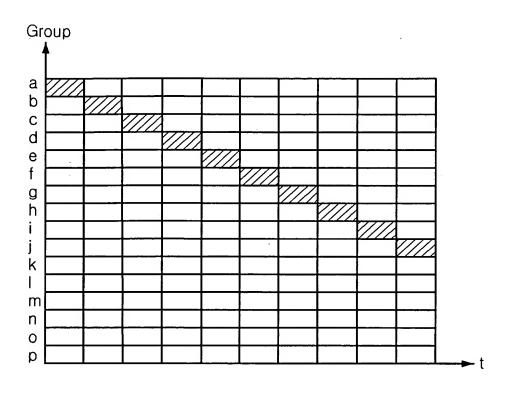
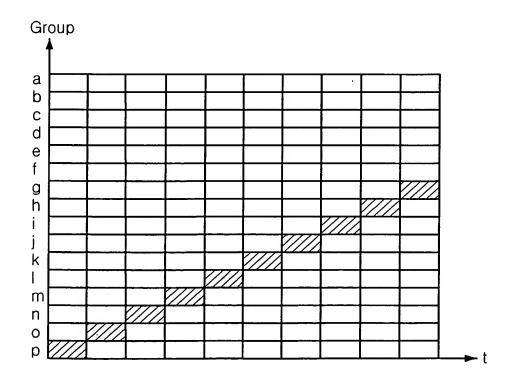


FIG. 23B



(310) 207-3 Blakely, Sokoloff, Taylor & Zafman LLP BIAKEIY, SOKOIOIT, LAYIOF & ZAIMAN LLP (310) 207-3
Title: PREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN
1st Named Inventor: Kyung-Hi CHANG
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FIG. 23C

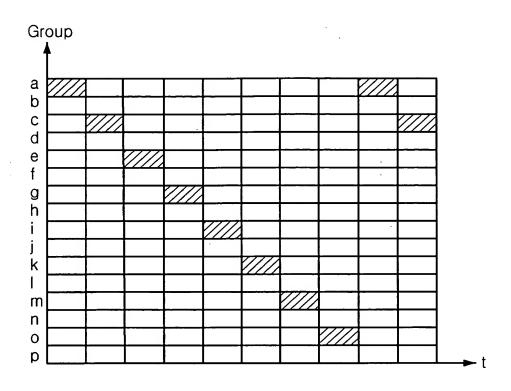
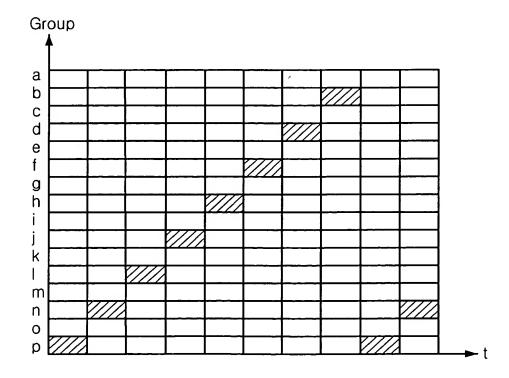


FIG. 23D



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FIG. 23E

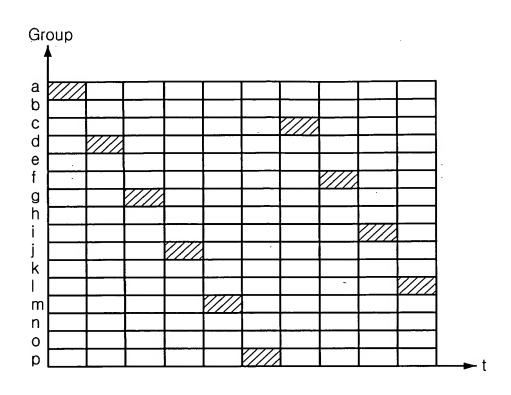
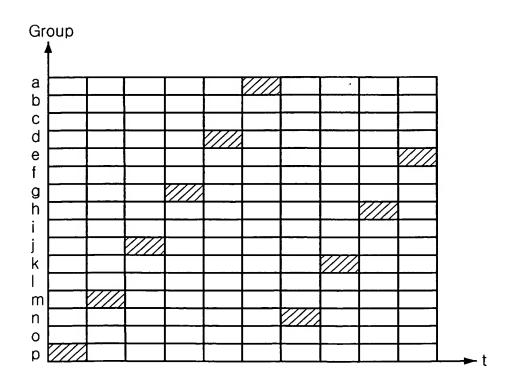


FIG. 23F



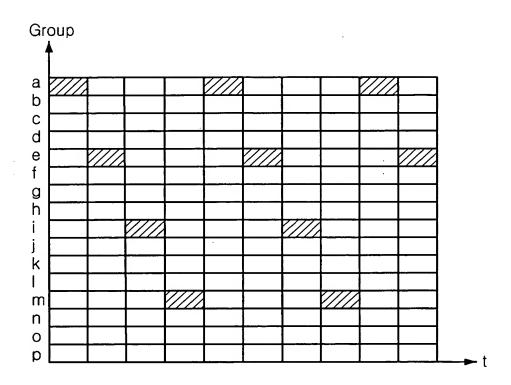
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Title: FREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN
1st Named Inventor: Kyung-Hi CHANG
Express Mail No.: EV372846782US Docket No.: 51876P8
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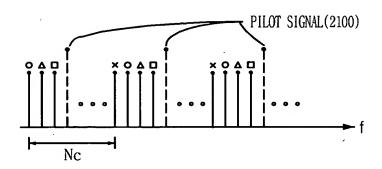
FIG. 23G



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Title: FREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN
1st Named Inventor: Kyung-Hi CHANG
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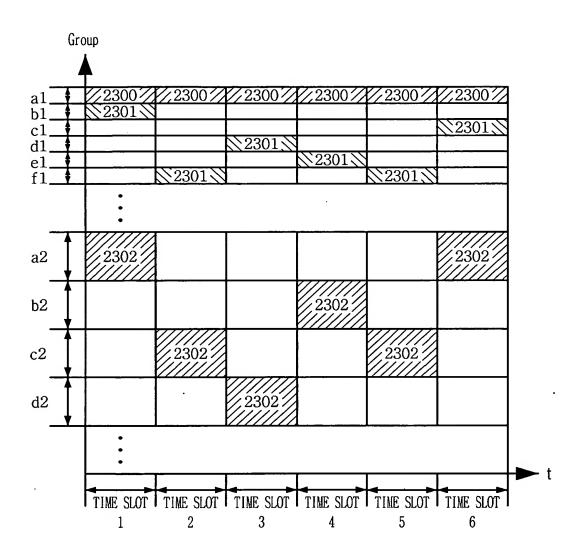
FIG. 24



(310) 207-38 Blakely, Sokoloff, Taylor & Zafman LLP Title: PREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN 1st Named Inventor: Kyung-Hi CHANG Express Mail No.: EV372846782US Docket No.: 51876P. Sheet: 38 of 46

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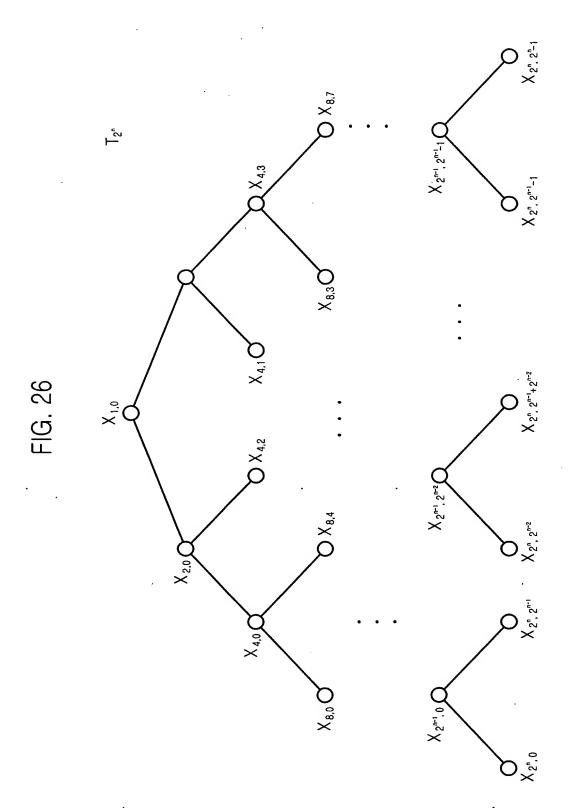
FIG. 25



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Express Mail No.: EV372846782US Docket No.: 51876PG
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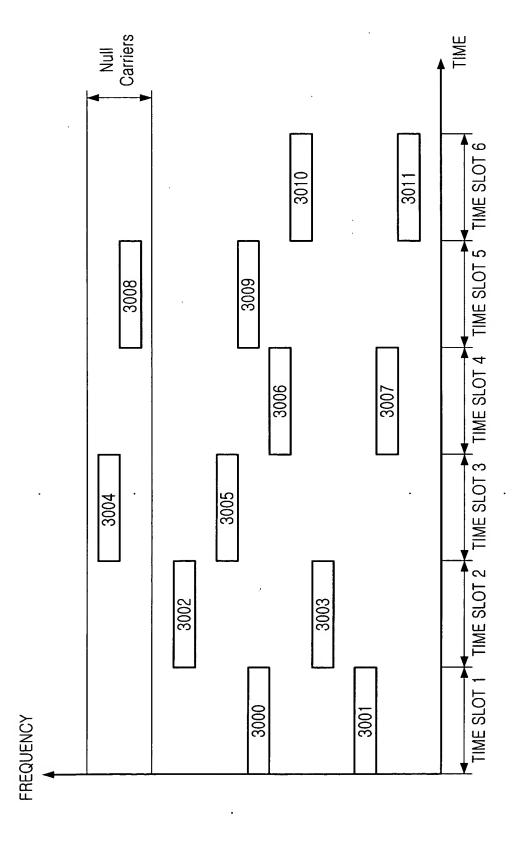
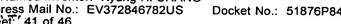


FIG. 27A



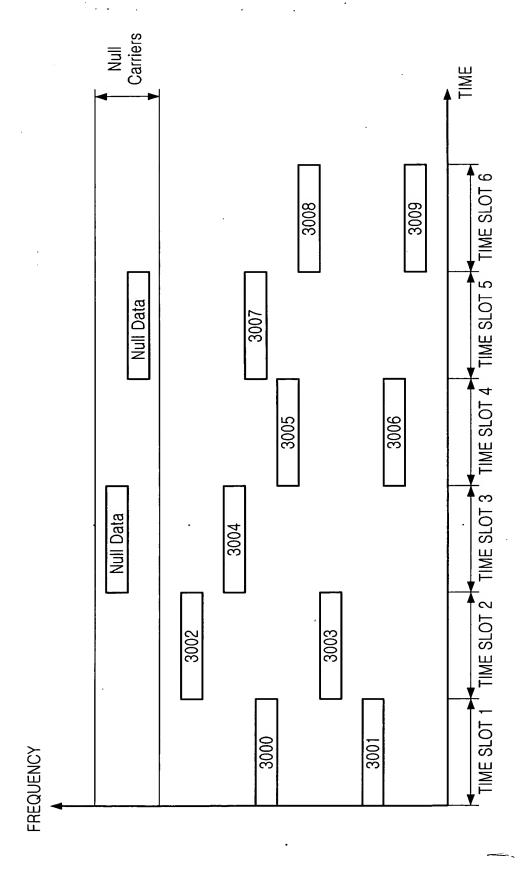


FIG. 27B

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Null Carrier T₂₅₆ $ST_5 = T_{128}$ X 3,1,0 $ST_3 = T_{256}$ X 3,256,0 - Sub-Carriers X 1,1024,1023 T₁₀₂₄ N = 17922048 $ST_1 = T_{1024}$ X_{1,1,0} II z X_{1.1024.0} X 4,128,127 T_{128} $ST_2 = T_{256}$ $ST_4 = T_{128}$ X_{4,128,0}

FIG. 28A

lakely, Sokoloff, Taylor & Zafman LLP (310) 207-3800 itle: FREQUENCY HOPPING OFDMA METHOD USING SYMBOLS OF COMB PATTERN ST Named Inventor: Kyung-Hi CHANG xpress Mail No.: EV372846782US Docket No.: 51876P844 heet: 43 of 46 0/532734

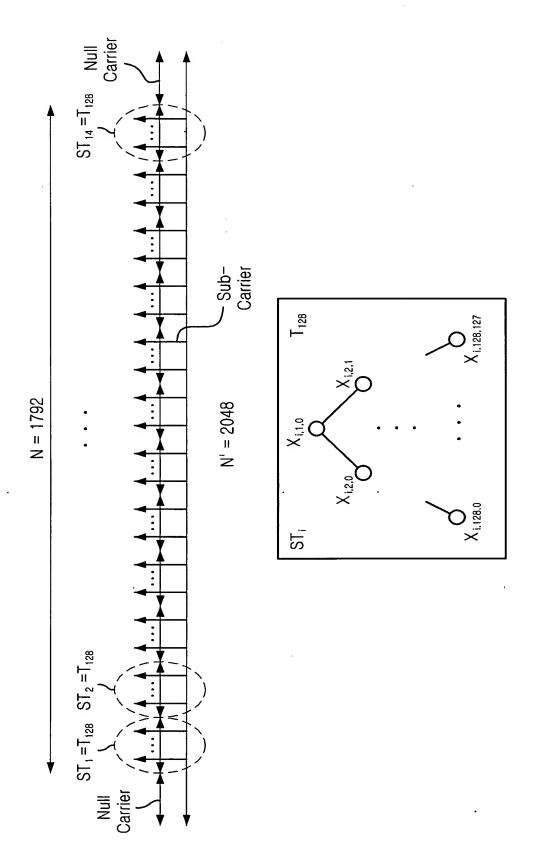


FIG. 28B

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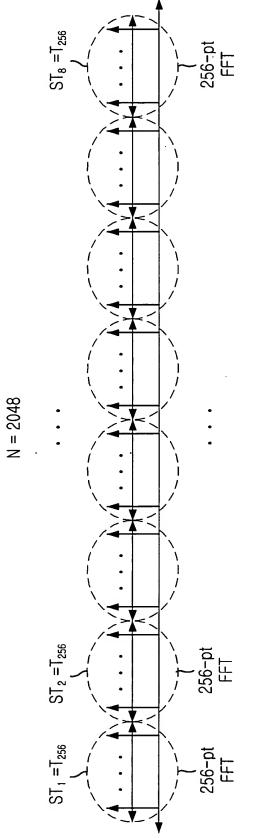
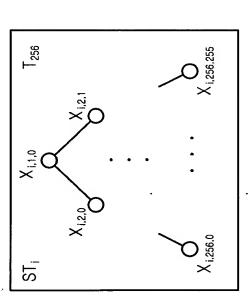


FIG. 28C



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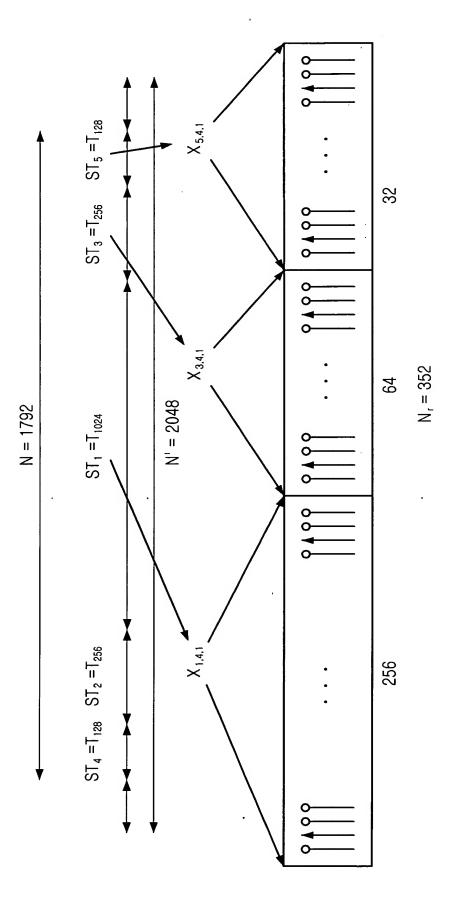


FIG. 29

lakely, Sokoloff, Taylor & Zafman LLP (310) 207-3800 itle: Frequency hopping ofdma method using symbols of comb pattern

st Named Inventor: Kyung-Hi CHANG

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